

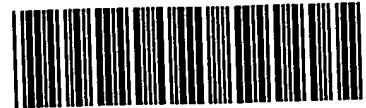
500

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/523,055
Source: PCT/10
Date Processed by STIC: 2/11/05

ENTERED



PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/523,055

DATE: 02/11/2005
TIME: 16:20:19

Input Set : A:\seqlist.txt
Output Set: N:\CRF4\02112005\J523055.raw

4 <110> APPLICANT: BIEMANS, Ralph
5 DENOEL, Philippe
6 FERON, Christiane
7 GORAJ, Carine
8 JENNINGS, Michael Paul
9 POOLMAN, Jan
10 WEYNANTS, Vincent
12 <120> TITLE OF INVENTION: VACCINE COMPOSITION COMPRISING
13 LIPOOLIGOSACCHARIDE WITH REDUCED PHASE VARIABILITY
16 <130> FILE REFERENCE: B45309
C--> 18 <140> CURRENT APPLICATION NUMBER: US/10/523,055
19 <141> CURRENT FILING DATE: 2005-02-02
21 <150> PRIOR APPLICATION NUMBER: PCT/EP03/008569
22 <151> PRIOR FILING DATE: 2003-07-31
24 <150> PRIOR APPLICATION NUMBER: GB 0218037.0
25 <151> PRIOR FILING DATE: 2002-08-02
27 <150> PRIOR APPLICATION NUMBER: GB 0218036.2
28 <151> PRIOR FILING DATE: 2002-08-02
30 <150> PRIOR APPLICATION NUMBER: GB 0218035.4
31 <151> PRIOR FILING DATE: 2002-08-02
33 <150> PRIOR APPLICATION NUMBER: GB 0218051.1
34 <151> PRIOR FILING DATE: 2002-08-02
36 <150> PRIOR APPLICATION NUMBER: GB 0220197.8
37 <151> PRIOR FILING DATE: 2002-08-30
39 <150> PRIOR APPLICATION NUMBER: GB 0220199.4
40 <151> PRIOR FILING DATE: 2002-08-30
42 <150> PRIOR APPLICATION NUMBER: GB 0225524.8
43 <151> PRIOR FILING DATE: 2002-11-01
45 <150> PRIOR APPLICATION NUMBER: GB 0225531.3
46 <151> PRIOR FILING DATE: 2002-11-01
48 <150> PRIOR APPLICATION NUMBER: GB 0230164.6
49 <151> PRIOR FILING DATE: 2002-12-24
51 <150> PRIOR APPLICATION NUMBER: GB 0230168.7
52 <151> PRIOR FILING DATE: 2002-12-24
54 <150> PRIOR APPLICATION NUMBER: GB 0230170.3
55 <151> PRIOR FILING DATE: 2002-12-24
57 <150> PRIOR APPLICATION NUMBER: GB 0305028.3
58 <151> PRIOR FILING DATE: 2003-03-05
62 <160> NUMBER OF SEQ ID NOS: 13
64 <170> SOFTWARE: FastSEQ for Windows Version 4.0
66 <210> SEQ ID NO: 1
67 <211> LENGTH: 25
68 <212> TYPE: DNA

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/523,055

DATE: 02/11/2005
TIME: 16:20:19

Input Set : A:\seqlist.txt
Output Set: N:\CRF4\02112005\J523055.raw

69 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
72 <223> OTHER INFORMATION: primer
74 <400> SEQUENCE: 1 25
75 ccttttagtca gcgttattgtat ttgcg
77 <210> SEQ ID NO: 2
78 <211> LENGTH: 39
79 <212> TYPE: DNA
80 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
83 <223> OTHER INFORMATION: primer
85 <400> SEQUENCE: 2 39
86 atcgggtgcgc gcaatataatt ccgactttgc caatttcattc
88 <210> SEQ ID NO: 3
89 <211> LENGTH: 25
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: primer
96 <400> SEQUENCE: 3 25
97 cggatgtatgttgcgttccat
99 <210> SEQ ID NO: 4
100 <211> LENGTH: 22
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: primer
107 <400> SEQUENCE: 4 22
108 atgaagtcataaaatagacat tg
110 <210> SEQ ID NO: 5
111 <211> LENGTH: 27
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: primer
118 <400> SEQUENCE: 5 27
119 atctgcgggc ggcggcgcga cttggat
121 <210> SEQ ID NO: 6
122 <211> LENGTH: 32
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: primer
129 <400> SEQUENCE: 6 32
130 gaatttcggat ccaactgatt gtggcgcatt cc
132 <210> SEQ ID NO: 7
133 <211> LENGTH: 45
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/523,055

DATE: 02/11/2005
TIME: 16:20:19

Input Set : A:\seqlist.txt
Output Set: N:\CRF4\02112005\J523055.raw

```

137 <220> FEATURE:
138 <223> OTHER INFORMATION: primer
140 <400> SEQUENCE: 7
141 tgccgtctga agacttcaga cggcttatac ggatgccagc atgtc 45
143 <210> SEQ ID NO: 8
144 <211> LENGTH: 11
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: primer
151 <400> SEQUENCE: 8 11
152 cggccggcc c
154 <210> SEQ ID NO: 9
155 <211> LENGTH: 20
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: primer
162 <400> SEQUENCE: 9 20
163 aaccgttttc ctattccat
165 <210> SEQ ID NO: 10
166 <211> LENGTH: 21
167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: primer
173 <400> SEQUENCE: 10 21
174 caccgatatg cccgaactct a
176 <210> SEQ ID NO: 11
177 <211> LENGTH: 18
178 <212> TYPE: DNA
179 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
182 <223> OTHER INFORMATION: primer
184 <400> SEQUENCE: 11 18
185 caccgccaaa ctgattgt
187 <210> SEQ ID NO: 12
188 <211> LENGTH: 680
189 <212> TYPE: DNA
190 <213> ORGANISM: Neisseria meningitidis
192 <400> SEQUENCE: 12
193 atgaagtc aatagacat tgcaaccagg aacttcaaac acggcgccgg cacggaacgc 60
194 tacacattgg atttggtaaa gggctgaac agacaaaaca tcacaccggc cgtttatgcg 120
195 acgaaatttg atcacggcat tcctgaatac gccatgatcg aaccctatct tgcgatcaa 180
196 caccggacgc tggaaaaact acgccattc ctctttcaa gccgctcac tcaaaccaga 240
197 aaaaacagtg ccccaaaact gattgcctgc caccacgccc attacgcccga cctcctcatc 300
198 tgcggccggca cacacttggg ctacctgcac catatggcgc aaaaaccgaa cctgctcgac 360
199 cgcctcgcca tacgcccgtaa ccgcagcaac tacgcccacgc ccaaactgtat tatggcgcata 420
200 tcccatatga tgcgggtgcga actggtcgga ctgtacggcg ttccccctga aagaatccaa 480

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/523,055

DATE: 02/11/2005
TIME: 16:20:19

Input Set : A:\seqlist.txt
Output Set: N:\CRF4\02112005\J523055.raw

201 gtcgcccccc ccccccaga tacggAACgc ttcttcccgc aaccggaga agctgccgac 540
202 ctgcgcgcca aatacggctt tgccgactat gaaaccgtt tcctgttccc atcgaccggc 600
203 cacacgcgca aaggcttgga actgcttgcc gacttttcg aacataccgg cctgcccgtc 660
204 aagctcgccg ttgtcggtc 680
206 <210> SEQ ID NO: 13
207 <211> LENGTH: 680
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Neisseria meningitidis strain MC58 mutant "fixed"
213 1gtG open reading frame
215 <400> SEQUENCE: 13
216 atgaagctca aaatagacat tgcaaccaac aacttcaaac acggcgccg cacggAACgc 60
217 tacacattgg atttggtaaa gggctgtAAC agacaaaaca tcacaccggc cgTTtatgcg 120
218 acgaaatttg atcacggcat tcctgaatac gccatgatcg aaccccatct tgcgtatcaa 180
219 caccggacgc tgaaaaaaact acgcccattc ctctttcaa gccggctcac tcaaaccaga 240
220 aaaaacagtg ccgcAAact gattgcctgc caccacgccc attacggca cctcctcattc 300
221 tgcggcgccca cacacttggg ctacctgcac catatggcgc aaaaaccgaa cctgctcgac 360
222 cgcctcgccca tacgcccgtaa ccgcagcaac tacggccaccg ccaaactgat tatggcgcat 420
223 tcccatatga tgcgggtgcgaa actgggtcgga ctgtacggcg ttccccctga aagaatccaa 480
224 gtcgcgcgcg cgcggcaga tacggAACgc ttcttcccgc aaccggaga agctgccgac 540
225 ctgcgcgcca aatacggctt tgccgactat gaaaccgtt tcctgttccc atcgaccggc 600
226 cacacgcgca aaggcttgga actgcttgcc gacttttcg aacataccgg cctgcccgtc 660
227 aagctcgccg ttgtcggtc 680

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/523,055

DATE: 02/11/2005

TIME: 16:20:20

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\02112005\J523055.raw

L:18 M:270 C: Current Application Number differs, Replaced Current Application Number